

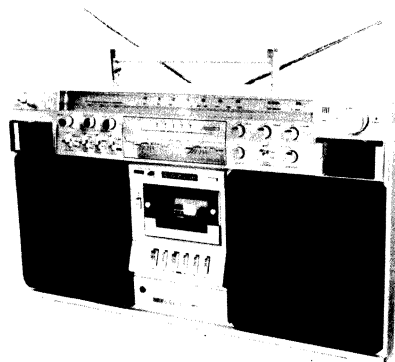
SV3-103B

SV3-103B

Gold Star Audio

# SERVICE MANUAL

for  
service technician

**Gold Star Co., Ltd.**

**STEREO CASSETTE RECORDER  
with AM/FM RADIO**

**TSR-800 (FM/SW/MW/LW)****TSR-805 (FM/SW<sub>2</sub>/SW<sub>1</sub>/MW)**

## SPECIFICATIONS

This specifications may be changed for improvement of performance without notice.

### Radio section

Circuit system . . . . . Superheterodyne system

Antenna

FM/SW2/SW . . . . . Telescopic ant.

SW1/MW/LW . . . . . Built-in ferrite bar ant.

Frequency range

FM . . . . . 88-109 MHz

SW2 . . . . . 7-2 MHz

SW . . . . . 6-18 MHz

SW1 . . . . . 2.3-7 MHz

MW . . . . . 515-1650 kHz

LW . . . . . 150-350 kHz

Intermediate freq.

AM . . . . . 455(465) kHz

FM . . . . . 10.7 MHz

Sensitivity Max (Usable)

FM . . . . . 8(14) dB

SW2, SW . . . . . 25(35) dB

SW1 . . . . . 36(46) dB

MW . . . . . 40(48) dB

LW . . . . . 50(58) dB

Signal to noise ratio

FM . . . . . 50 dB

SW2, SW . . . . . 45 dB

SW1 . . . . . 45 dB

MW . . . . . 46 dB

LW . . . . . 35 dB

FM Frequency response . . . . . 100-10000 Hz (0±4 dB)

FM stereo separation . . . . . 20 dB

Stereo LED sensitivity . . . . . 26 dB

Tuning LED sensitivity . . . . . AM: 54 dB

FM: 20 dB

### Cassette section

Circuit system . . . . . 4 track 2ch. stereo

Recording system . . . . . AC Bias (70 kHz)

Erasing system . . . . . AC Erase

Tape speed . . . . . 4.75 cm/sec

F.F. & REW time . . . . . 90 sec

Wow & Flutter . . . . . 0.04% (WRMS)

Frequency response . . . . . P/B: 100-12000 Hz

REC/PB: 100-10000 Hz

Signal to Noise ratio . . . . . P/B: 50 dB

REC/PB: 45 dB

Separation . . . . . 40 dB

### General

Power output (10% T.H.D.) . . . 6.2W+6.2W

Semiconductors . . . . . 8IC's, 34TR's, 34Diodes,  
10LED's

Power consumptions . . . . . 18W

Speakers . . . . . Tweeter 5cm 4Ωx2

Woofer 20cm 4Ωx2

Weight . . . . . 9 Kg

Dimensions . . . . . 627(W)x358(H)x145(D) mm

### To the service technician

The service manual contains detailed service information for Model TSR-800 and TSR-805 with the exception of radio band function.

The basic difference between Model TSR-800 and TSR-805 is radio band.

For example:

Model TSR-800 has the functions of FM, SW, MW and LW.

Model TSR-805 has the functions of FM, SW1, SW2, and MW.

Illustration of the model appears on front cover.

Please give attention to next caution.

The followings are the safety servicing guidelines for all audio amplifiers and radio receivers.

Service work should be performed only after you are familiar with all of the following safety guide.

To do otherwise increases the risk of potential hazards and injury to the user.

### Safety guide

1. Be sure that all components are positioned in such a way to avoid possibility of adjacent components shorts. This is especially important on those chassis which are transported to and from the repair shop.
2. Always replace all protective devices such as insulators and barriers after working on a receiver.
3. Check for frayed insulation on wires including the AC-cord. Also check across-the-line-components for damage and replace if necessary.
4. All fuses and certain resistors and capacitors which are of the flameproof type must be replaced with exact same types to prevent potential fire hazard.
5. After re-assembly of the set always perform an AC-leakage test on the exposed metallic parts of the cabinet such as the knobs, antenna terminal, etc. to be sure the set is safe to operate without danger of electrical shock.

### To order repair parts

part orders must contain;

1. Model Number — found on front cover in this service manual.
2. Part Number, Description and Quantity.

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## OPERATING CONTROLS

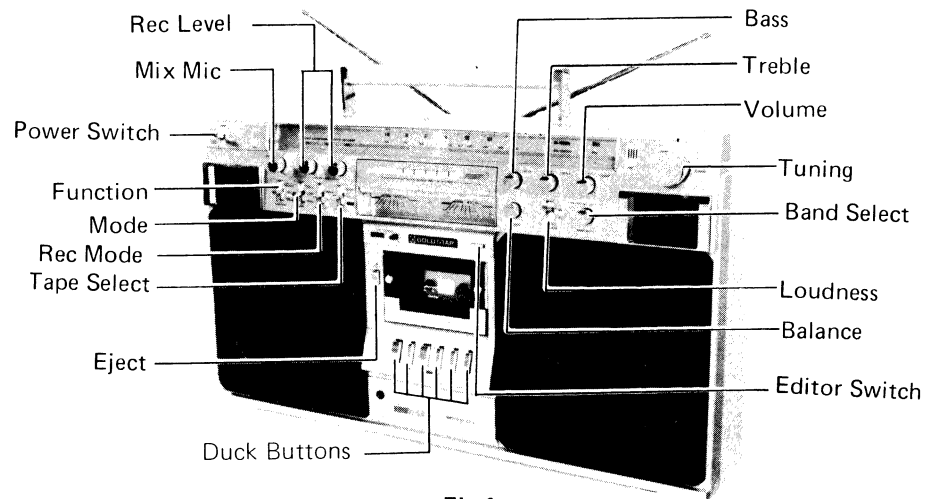


Fig.1

## DISASSEMBLY INSTRUCTIONS

### 1. To remove front case

- (1) Please pull out the round volume knobs such as tuning, Bass, treble etc.(see Fig.1) and open the cassette door with pressing the eject button.(see Fig.2)
- (2) Remove seven screws (A) and take out the front case (see Fig.3) At this time, remove connectors for serviceable work.(see Fig.4)

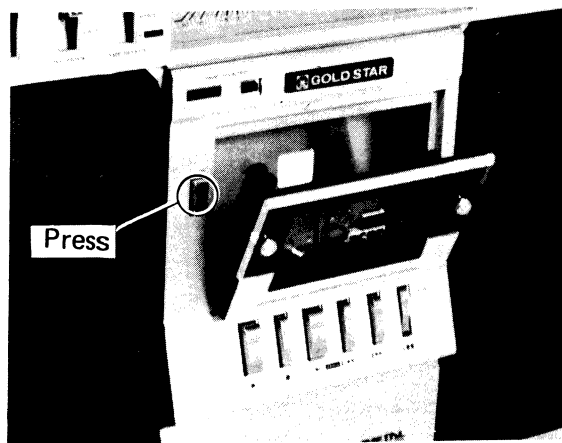


Fig.2

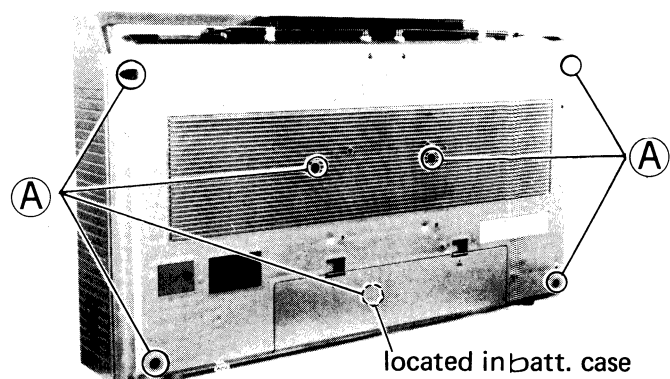


Fig.3

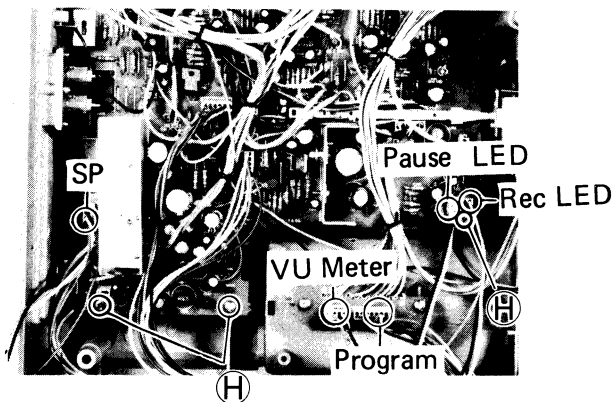


Fig.4

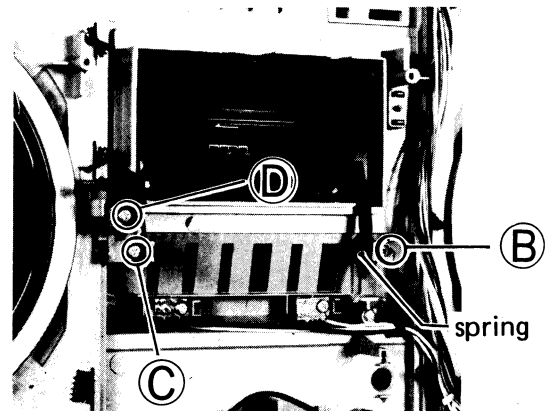


Fig.5

**2. To service cassette door (see Fig.5)**

- (1) Remove screw (B) and spring
- (2) Remove screw (C) and (D)

**3. To remove scale plate**

- (1) Remove screw (E) (five) and move pointer to the groove to remove easily scale plate.
- (2) To re-assemble toughly it, first of all, you must fix screw (E) as shown in Fig.7.
- (3) Please make sure of it if LED and LED hall are agree with each other or not.

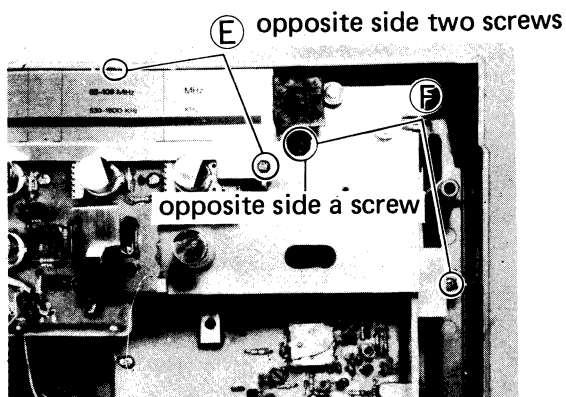


Fig. 6

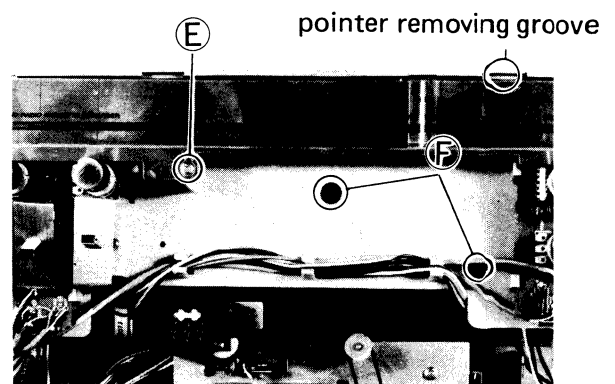


Fig. 7

#### 4. To remove RF & AF PWB

- (1) Remove screw ⑤ (five). (see Fig.6.7)
- (2) Remove screw ③ (see Fig.8) and ⑥ (six) as shown in Fig 4 & Fig. 9.

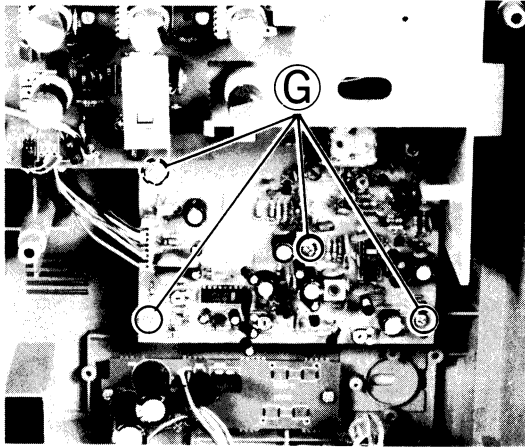


Fig. 8

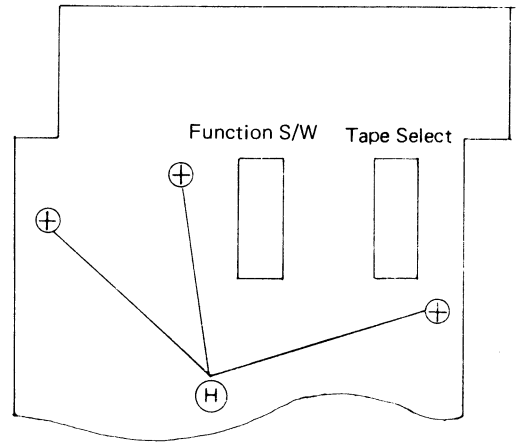


Fig. 9

- (3) When re-assembling the chassis if Rec S/W Bracket is in touched with DECK AY, pull out the Rec S/W Bracket in direction of an arrow. (See Fig. 10)

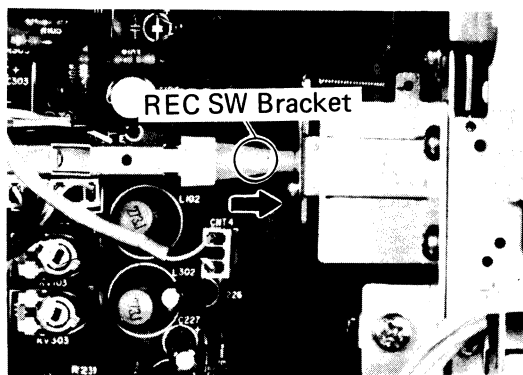


Fig. 10

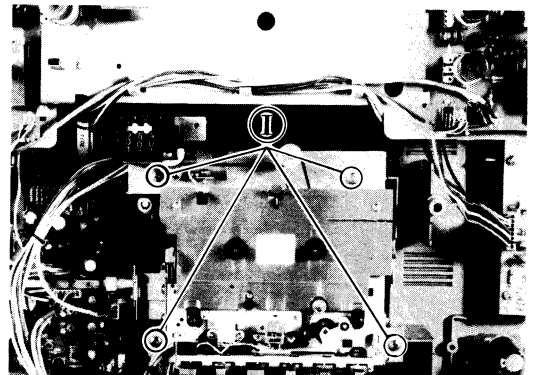


Fig. 11

#### 5. To remove Deck Mechanism

- Remove screw ① (see Fig.11)

## DIAL CORD ARRANGEMENT

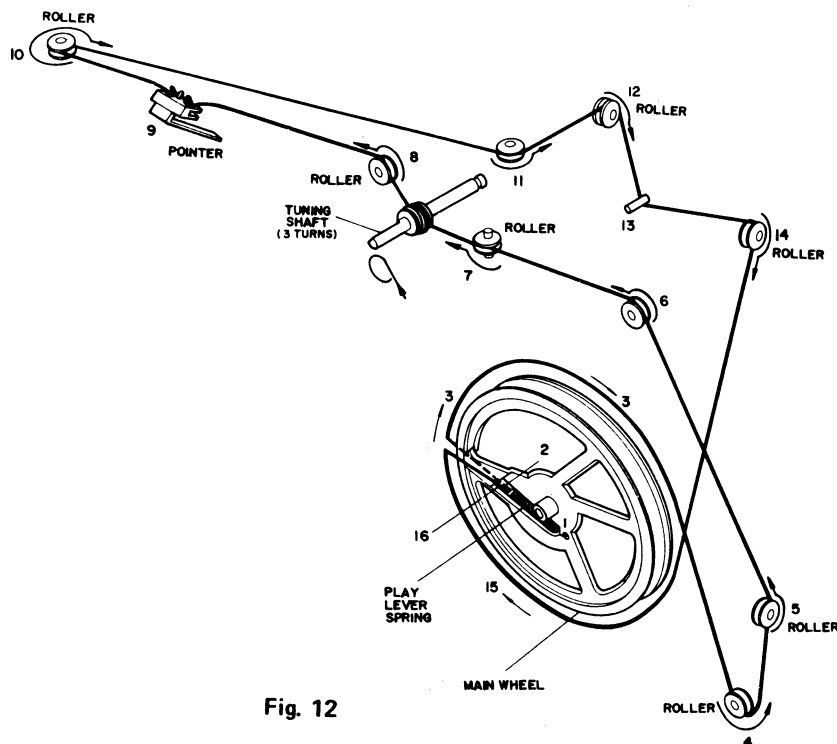


Fig. 12

Set the varicon to minimum frequency and string the cord by following the number sequence order as shown in Fig.12.

## ALIGNMENT INSTRUCTIONS

This cassette radio has been aligned at the factory and normally will not require further adjustment. As a result, it is not recommended that any attempt is made to modificate any circuit. If any parts are replaced or if anyone tampers with the adjustment, realignment may be necessary.

### Test equipment required

1. AM/FM signal generator
2. IF sweep generator (10.7 MHz) for FM
3. IF sweep generator (455 kHz or 465 kHz) for AM
4. Standard dummy antenna for FM
5. Standard loop antenna for AM
6. VTVM
7. Oscilloscope
8. Frequency counter
9. Audio frequency oscillator
10. Test tapes
  - a) MTT-114 (10kHz)
  - b) MTT-112B (1kHz)
  - c) MTT-501 (Blank tape)

## RADIO ALIGNMENT

### Adjustment and test points

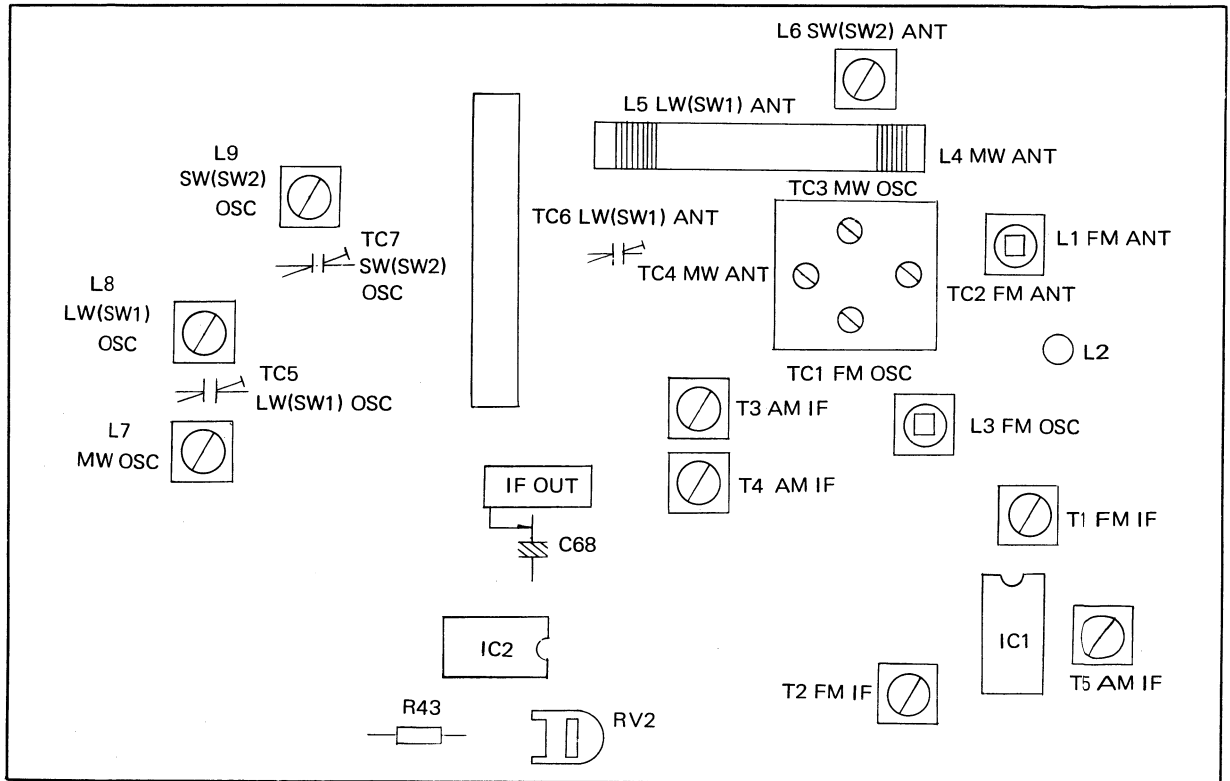


Fig. 13 RF PCB

**Note 1.:** Adjust T3, T4 and T5 to get maximum gain and symmetry in IF response as shown in Fig. 14.

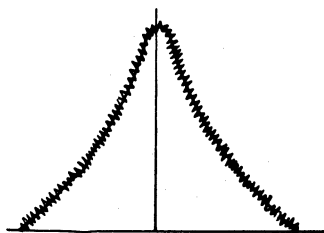


Fig. 14

IF response for weak input signal

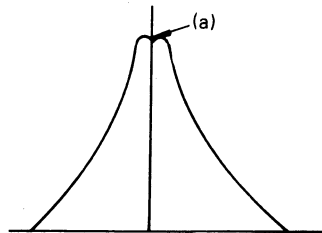


Fig. 15

IF response for strong input signal.

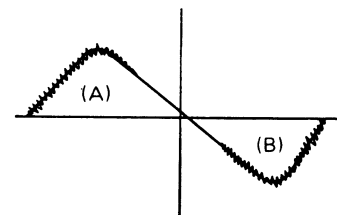
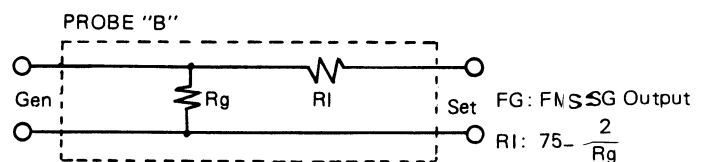
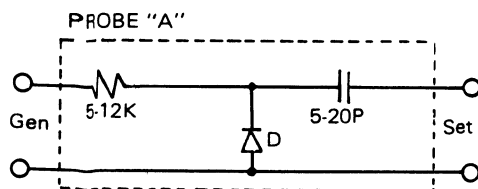


Fig. 16

After adjust IF response for weak input signal, supply strong input signal and also adjust T3, T4 and T5 to make part (a) flat as shown in Fig. 15.

**Note 2.:** Adjust T1 so that part (A) and part (B) are symmetrical on either side of vertical line and adjust T2 for maximum noise on s-curve line.



## AM Alignment Chart

Step	Item	Instrument & Frequency	Test Point		Dummy Ant.	Dial Setting	Adjustment point	Purpose
			Input Terminal	Output Terminal				
1	AM-IF	AM IF sweep generator and oscilloscope or AM IF genescope	AM IF Input	Detector output (C68)	Generator output Probe "A"	Tuning-Gang counter-clockwise (Lowest freq.)	T3 T4 T5	Adjust for the scope pattern with specified marker (IF freq.) as illustrated in fig. 14 (Note 1)
2	MW Oscillator	a AM SSG 515kHz (400Hz, 30% Mod) and VTVM	MW wave magnet ant.	Speaker output or detector output	None	Tuning-Gang counter-clockwise (Lowest freq.)	L7	Adjust for maximum gain.
		b AM SSG 1650kHz (400Hz, 30% Mod) and VTVM				Tuning-Gang clock wise (Highest freq.)	TC3	
		c Repeat the above item 2-(a), (b) for minimum change.						
3	MW Tracking	a AM SSG 600kHz (400Hz, 30% Mod) and VTVM	MW wave magnet ant.	Speaker output terminal or detector output	None	Tune to signal	L4 MW ant. coil	Adjust for maximum gain.
		b AM SSG 1400kHz (400Hz, 30% Mod) and VTVM					TC4	
		c Repeat the above item 3-(a), (b) for minimum change						
4	LW (SW1) OSC	a AM SSG 150kHz (2.3MHz) (400Hz, 30% Mod) and VTVM	LW(SW1) wave magnet ant.	Speaker output terminal or detector output	None	Tuning gang fully counter clockwise (Lowest fre.)	L8	Adjust for maximum gain.
		b AM SSG 350kHz (7.0MHz) (400Hz, 30% Mod) and VTVM				Tuning gang fully clockwise (Highest fre.)	TC5	
		c Repeat the above item 4-(a), (b) for minimum change.						



AM Alignment Chart (Cont'd)

Step	Item	Instrument & Frequency		Test Point		Dummy Ant.	Dial Setting	Adjustment point	Purpose
				Input Terminal	Output Terminal				
5	LW (SW1) Tracking	a	AM SSG 160kHz (2.7MHz) (400Hz, 30% Mod) and VTVM	LW(SW1) wave magnet ant.	Speaker output terminal or detector output	None	Tune to signal	L5	Adjust for maximum gain.
		b	AM SSG 330kHz (6.3MHz) (400Hz, 30% Mod) and VTVM					TC6	
		c	Repeat the above item 5-(a), (b) for minimum change.						
6	SW (SW2) OSC	a	AM SSG 6MHz (7MHz) (400Hz, 30% Mod) and VTVM	Ant. input	Sp. output ter, or detector output	SW dummy ant (Probe "C")	Tuning gang fully counter clockwise (Lowest fre.)	L9	Adjust for maximum gain.
		b	AM SSG 18MHz (22MHz) (400Hz, 30% Mod) and VTVM				Tuning gang fully clockwise (Highest fre.)	TC7	
		c	Repeat the above item 6-(a), (b) for minimum change.						
7	SW (SW2) Track- ing	a	AM SSG 6.5MHz (8MHz) (400Hz, 30% Mod) and VTVM	Ant. input	Speaker output ter. or detector output	SW dummy ant. (Probe "C")	Tune to signal	L6	Adjust for maximum gain.
		b	AM SSG 16MHz (20MHz) (400Hz, 30% Mod) and VTVM						
		c	Repeat the above item 7-(a), (b) for minimum change.						

## FM Alignment Chart

Step	Item	Instruments & Frequency	Test Point		Dummy Ant.	Dia Setting	Adjustment Point	Purpose
			Input Terminal	Output Terminal				
1	FM-IF	FM IF Sweep Generator and oscilloscope or FM IF generating	FM-IF Input	FM Det Output (C68)	Generator Output probe "A"	Tuning Gang fully counter-clockwise (Lowest Fre.)	T1	Adjust for scope Pattern with specified marker (10.7MHz) as illustrated in Fig. 16 (note 2)
	IF-Gain						T2	
2	FM Oscillator	a	Ant. Input	Speaker Output Terminal	Generator Output Probe "B"	Tuning Gang fully counter-clock wise (Lowest fre.)	L3	Adjust for maximum gain.
		b	Ant. Input	Speaker Output Terminal	Generator Output Probe "B"	Tuning Gang fully clockwise (Highest fre.)	TC1	Adjust for maximum gain.
		c	Repeat the above item 2-(a), (b) for minimum change.					
3	FM Tracking	a	Ant. Input Terminal	Speaker Output Terminal	Generator Output Probe "B"	Tune to signal	L1	Adjust for maximum gain.
		b	Ant. Input Terminal	Speaker Output Terminal	Generator Output Probe "B"	Tune to signal	TC2	Adjust for maximum gain
		c	Repeat the above item 3-(a), (b) for minimum change.					

## FM Multiplex Alignment

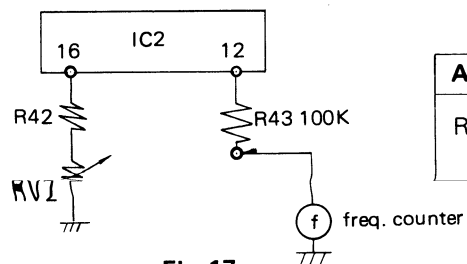


Fig. 17

Adjustment	Remarks
RV-2 (10K-B)	Frequency counter should read 19 KHz $\pm$ 0.1 KHz

## CASSETTE ALIGNMENT

### Tape head and capstan cleaning

1. Periodically clean the tape head, capstan drive shaft and other tape handling surfaces to insure proper tape handling and optimum frequency response.
2. Use a cotton swab dipped in head cleaner or denatured alcohol to clean all tape handling surfaces. Wipe dry.

### Tape head demagnetization

When servicing tape unit, do not use magnetized screwdrivers or wrenches near the tape head since they can magnetize the head.

A magnetized head will result in loss of high frequency response and increased noise.

### Head adjustment

Head adjustment is normally required when the head is replaced or for cases of cross-talk and poor high frequency response.

### Adjustment points

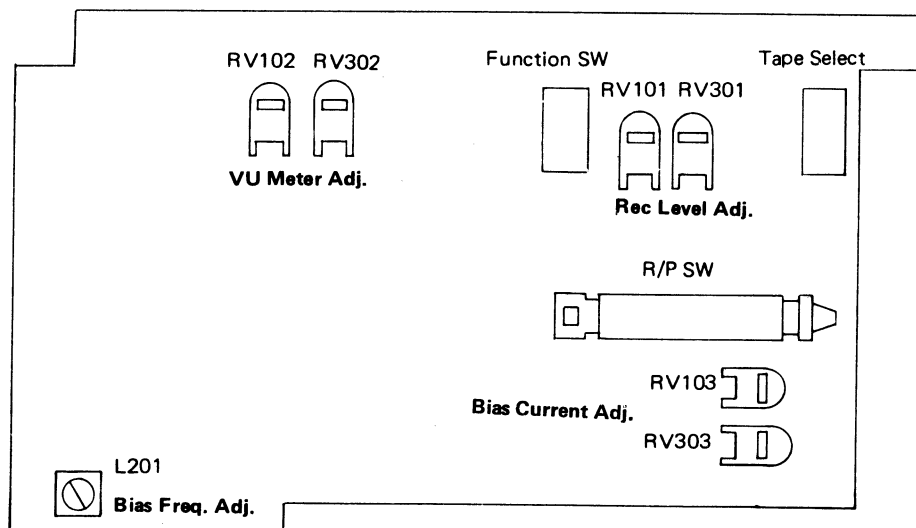
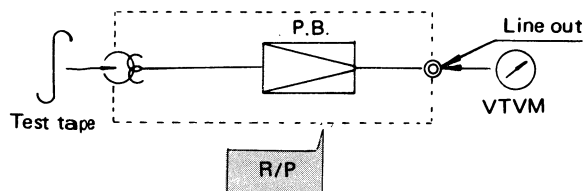


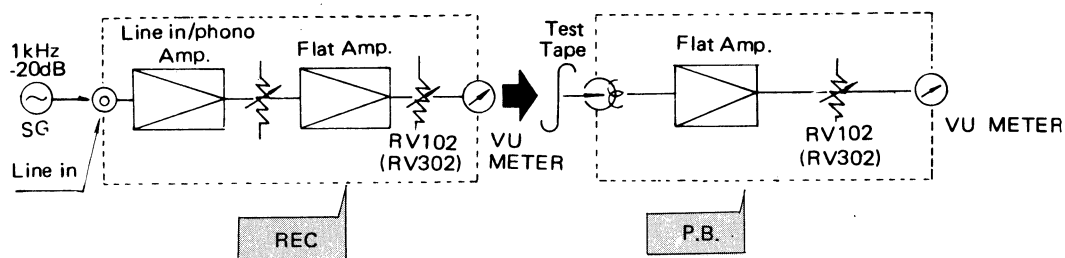
Fig. 18 MAIN PCB

### AZIMUTH ADJUSTMENT



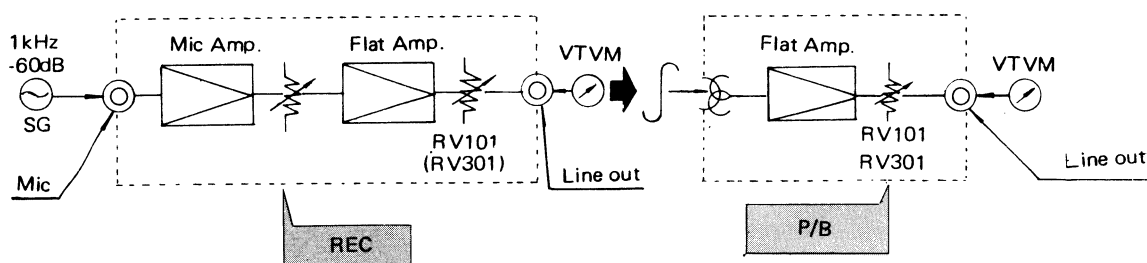
Input	Adjust for	Adjustment
MTT-114 (10kHz)	Maximum	Azimuth adjusting screw

### VU METER ADJUSTMENT



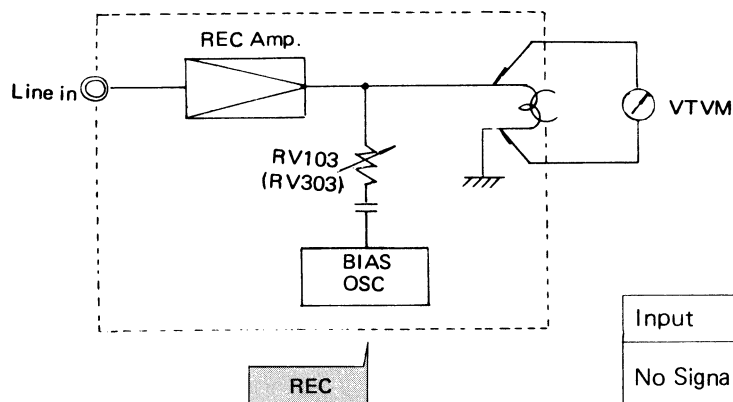
NO.	Input	Adjust for	Adjustment
1	1kHz -20dB	VU METER:0	L: RV102 R: RV302
2	MTT-112B (1kHz)	VU METER: +3	L: RV102 R: RV302

### REC LEVEL ADJUSTMENT



NO.	Input	Adjust for	Adjustment	Remark
1 (REC/PB)	1kHz -60dB	A	L: RV101 R: RV301	REC MODE: AUTO TAPE SEL.: NOR
2 (P/B)	MTT-112B (1kHz)	Lower about 4dB than A	Confirm	"

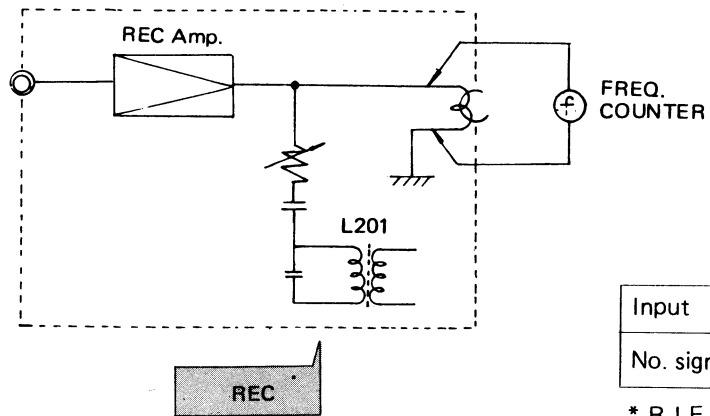
### BIAS CURRENT ADJUSTMENT



Input	Adjust for	Adjustment
No Signal	AC 10V±0.5V	L: RV103 R: RV303

\* Tape select : Normal position

# BIAS FREQUENCY ADJUSTMENT



Input	Adjust for	Adjustment
No. signal	$70 \pm 3\text{kHz}$	L201

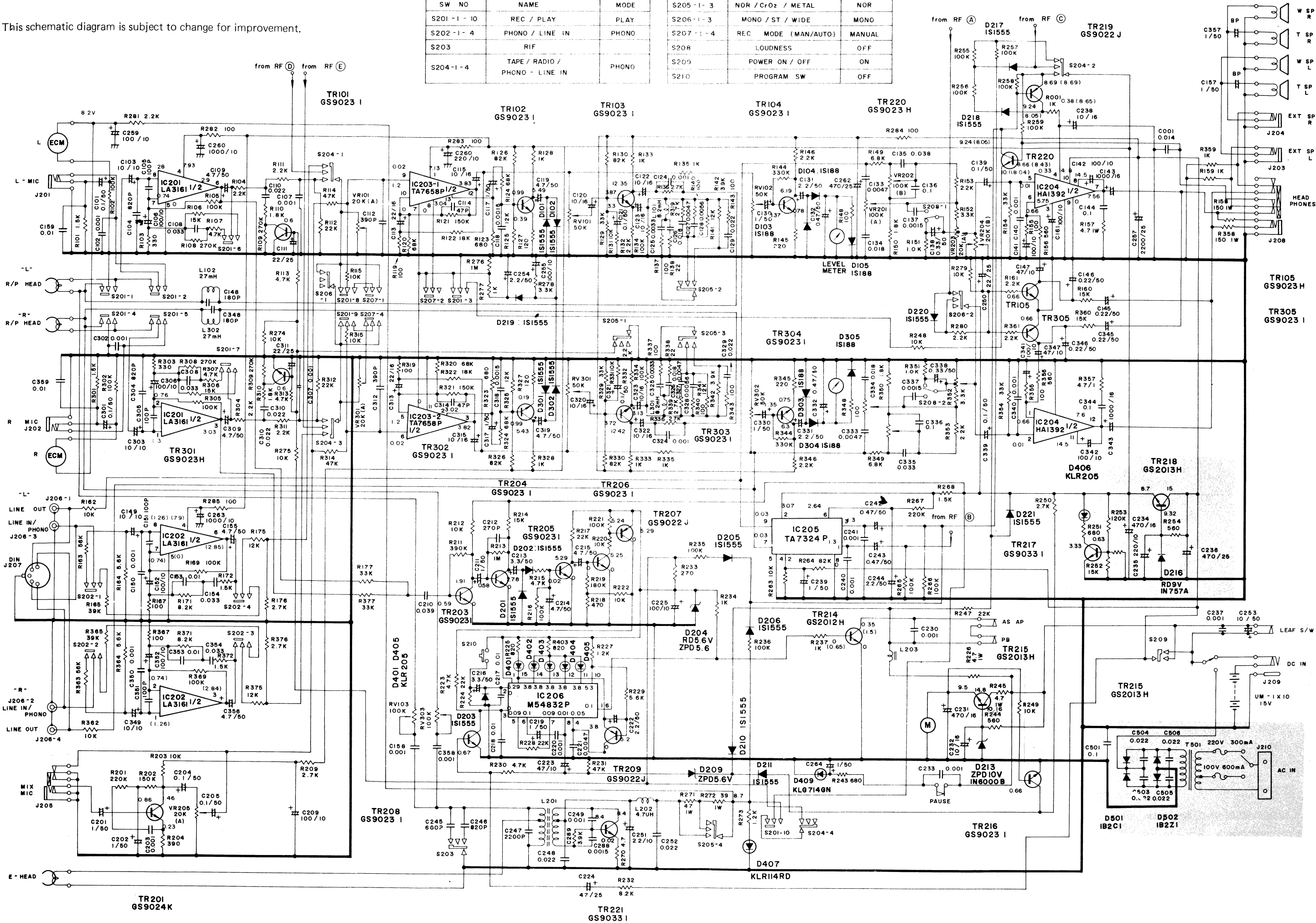
\* R.I.F S/W: "2" position

SCHEMATIC DIAGRAM AF

This schematic diagram is subject to change for improvement.

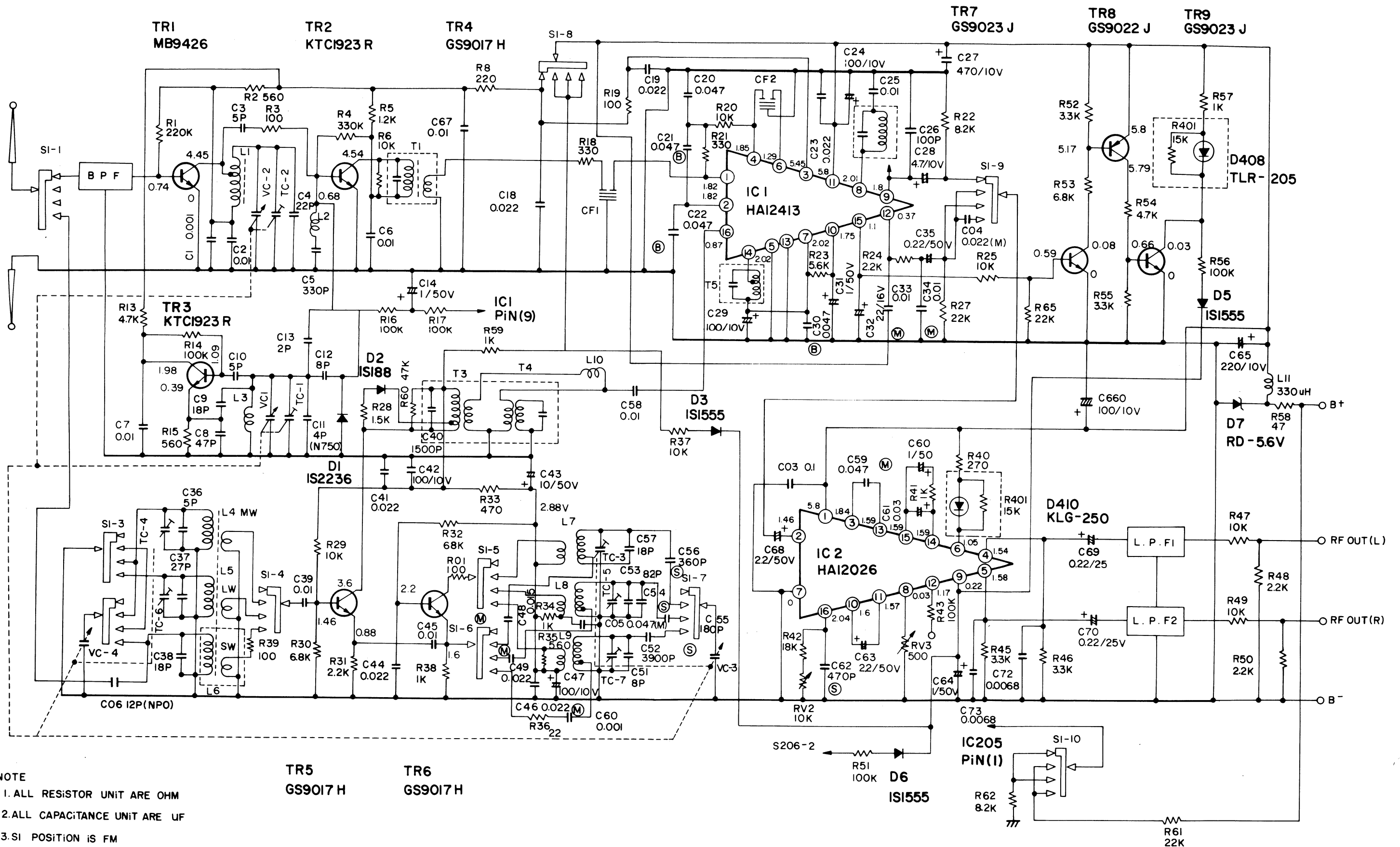
SW NO	NAME	MODE
S201-1-10	REC / PLAY	PLAY
S202-1-4	PHONO / LINE IN	PHONO
S203	RIF	
S204-1-4	TAPE / RADIO / PHONO - LINE IN	PHONO

S205-1-3	NOR / CrO <sub>2</sub> / METAL	NOR
S206-1-3	MONO / ST / WIDE	MONO
S207-1-4	REC MODE (MAN/AUTO)	MANUAL
S208	LOUDNESS	OFF
S209	POWER ON / OFF	ON
S210	PROGRAM SW	OFF



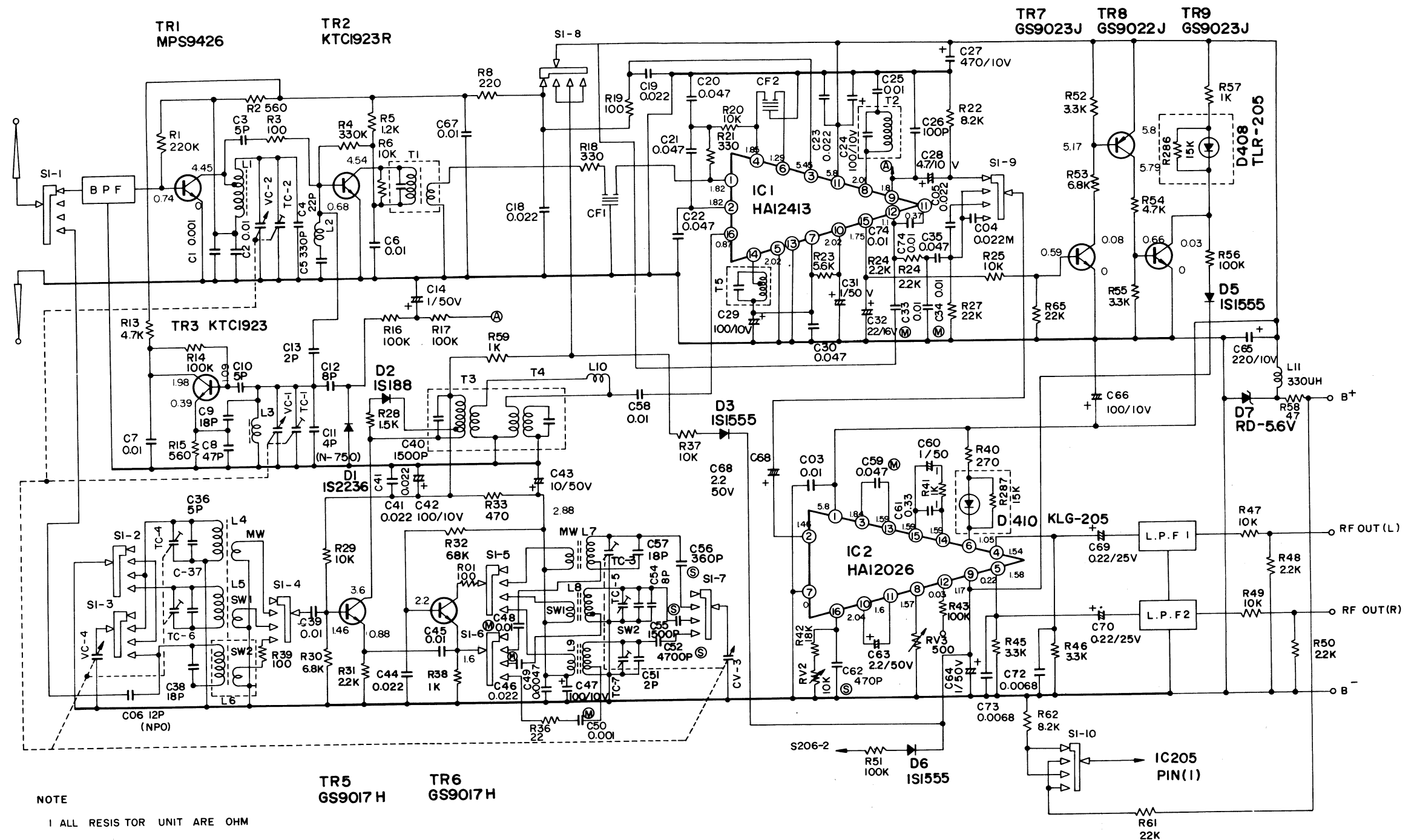
# SCHEMATIC DIAGRAM RF (TSR-800)

This schematic diagram is subject to change for improvement.



**SCHEMATIC DIAGRAM RF (TSR-805)**

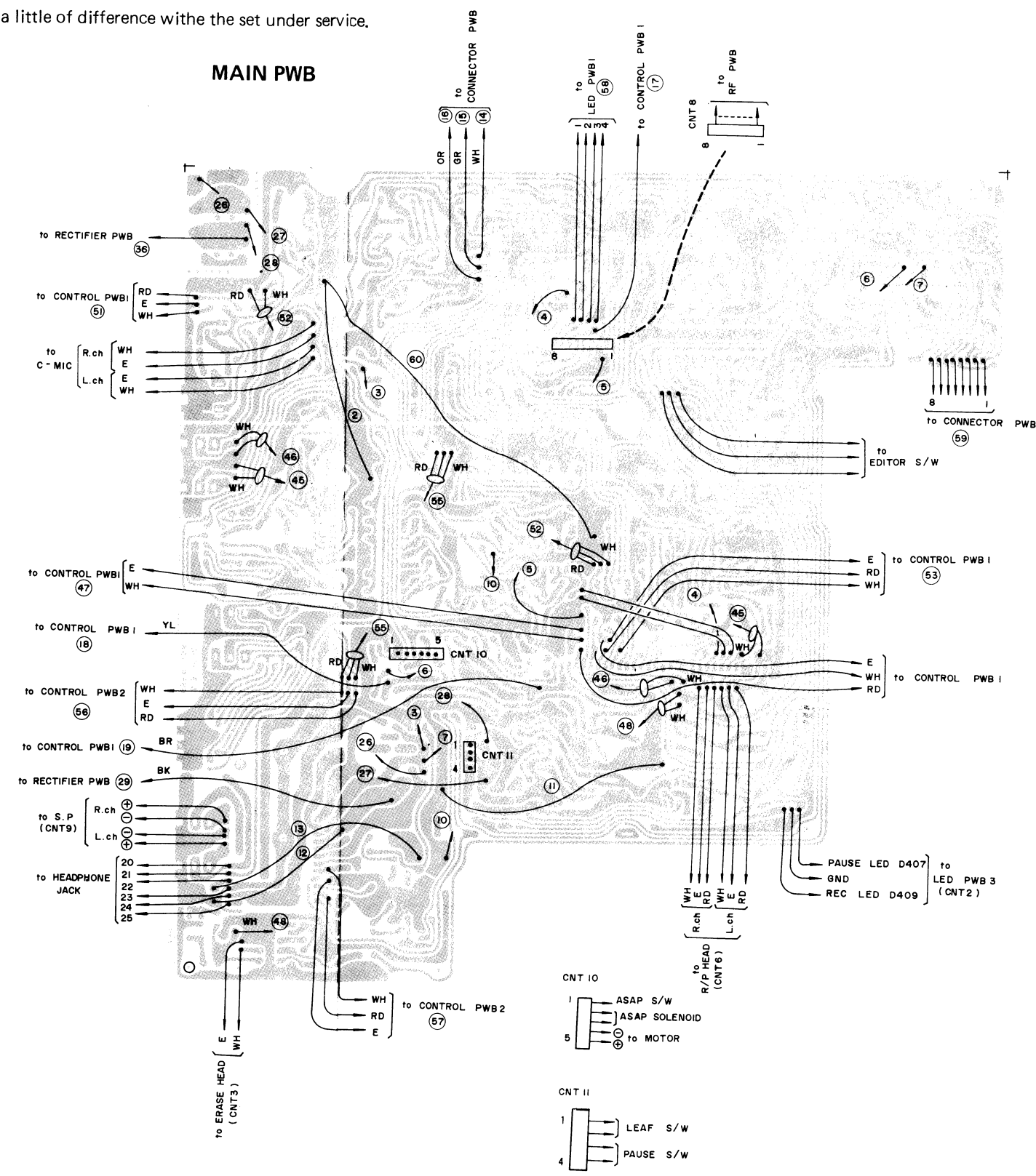
This schematic diagram is subject to change for improvement.



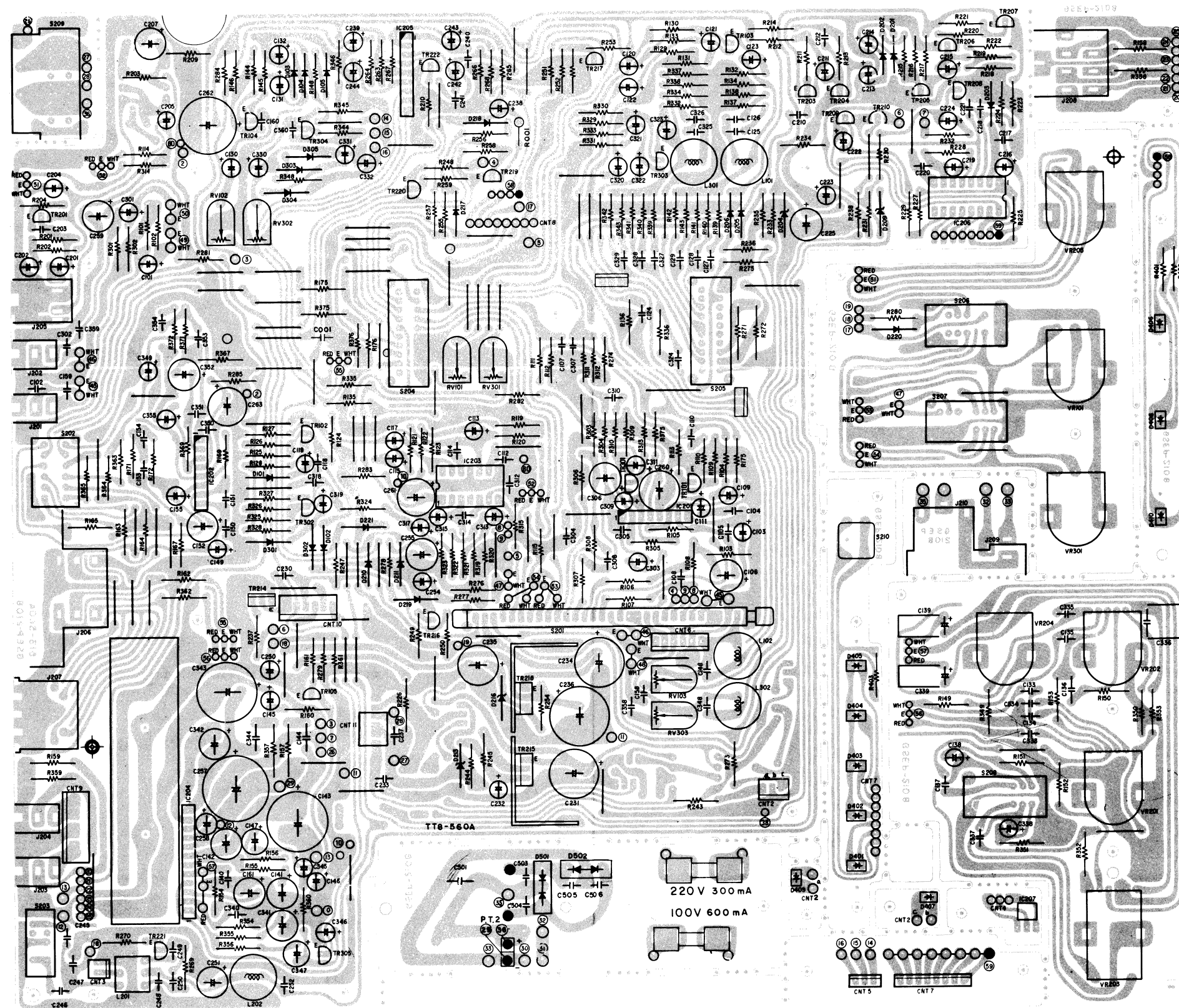


ELECTRICAL PARTS LOCATIONS AND WIRING

This circuitry pattern and printing may be made a little of difference withe the set under service.  
When servicing the set, please make sure of.



# MAIN PWB



to MAIN PWB (51)

to MAIN PWB

to MAIN PWB 47

to MAIN PWB (54)

to MAIN PWB 53

VR205

VR101

VR301

S206

S207

R280

D220

RED

E

WH

RD

BR

YL

BL

47

54

53

[illegible]

### LED PWB 3

Diagram of J208 connector pinout. The connector has 8 pins. Pin 25 is connected to R158. Pin 24 is connected to R358. Pin 23 is connected to R358. Pin 22 is connected to R358. Pin 21 is connected to R358. Pin 20 is connected to R358. The pins are labeled 25, 24, 23, 22, 21, 20 from top to bottom. The text "J208" is at the bottom left. The text "to MAIN PWB" is at the bottom right.

Diagram showing the connection of the IC207 sensor to the MAIN PWB. The sensor has three pins labeled RD, E, and WH, which are connected to the MAIN PWB (CNT4).

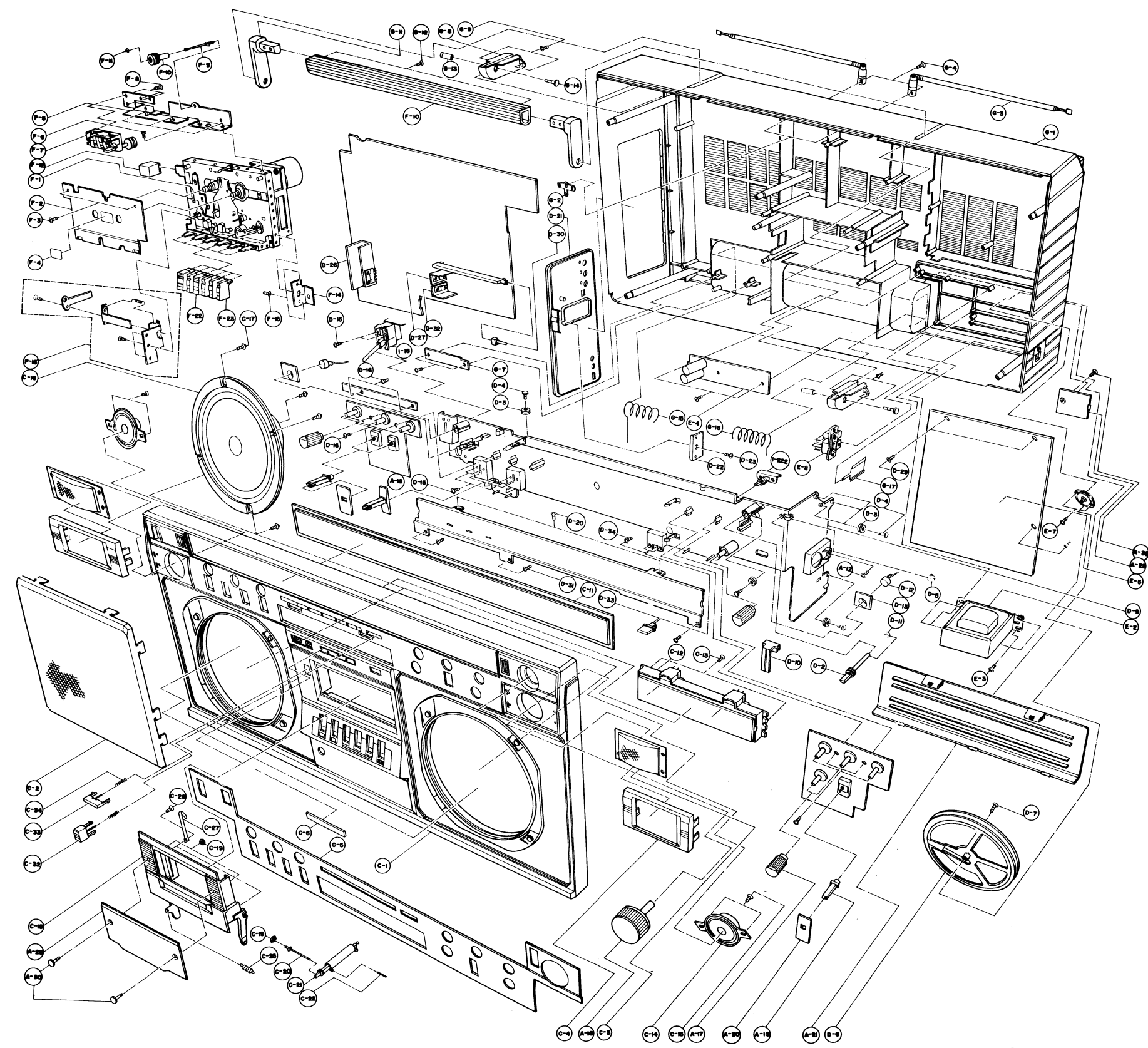


ELECTRICAL SERVICE PARTS LIST

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
INTEGRATED CIRCUITS					
IC1	668-161A	IC, HA12413		665-840A	TR, KTC 9013AH
IC2	668-618A	IC, HA12026	TR217	662-020B	TR, MPS 9418AJ
IC201	668N063A	IC, LA3161	TR218	664-601B	TR, KTD-880Y
IC202	668N063A	IC, LA3161	TR219	662N039D	TR, MPS 9461AJ
IC203	668-622A	IC, TA7658P		665-841A	TR, KTC 9012AH
IC204	668-625A	IC, HA1392	TR220	662N033D	TR, MPS 9411AJ
IC205	668-620A	IC, TA73249		665-840A	TR, KTC 9013AH
IC206	668-623A	IC, M54832P	TR221	662-020B	TR, MPS 9418AT
TRANSISTORS AND DIODES			TR301, 302	662N033D	TR, MPS 9411AJ
TR1	662-601A	TR, MPS426B	303, 304, 305	665-840A	TR, KTC 9013AH
TR2, 3	665-819A	TR, KTC 1923-R	D1	654-418A	DIODE, 1S2236
TR5, 6	662-007D	TR, MPS 9604H	D2	651-001C	DIODE, AM 1K60
			D3, 5, 6	652T605B	DIODE, 1S2472
			D7	654-608D	DIODE, ZPD 5.6
TR7	662N033D	TR, MPS 9411AJ	D101, 102	652T605B	DIODE, 1S2472
	665-840A	TR, KTC 9013AH	D103, 104 105	652-001C	DIODE, AM1K60
TR8	662N039D	TR, MPS 9461AJ	D201, 202, 203	652T605B	DIODE, 1S2472
	665-841A	TR, KTC 9012AH	D204	654-608D	DIODE, ZPD 5.6
TR9	662N033D	TR, MPS 9411AJ	D205, 206	652T605B	DIODE, 1S2472
	665-840A	TR, KTC 9013AH	D209	654-608D	DIODE, ZPD 5.6
TR101-105	662N033D	TR, MPS 9411AJ	D210, 211	652T605B	DIODE, 1S2472
	665-840A	TR, KTC 9013AH	D213	654-612B	DIODE, ZPD10
TR201	662-026B	TR, MPS 9633B	D216	654-623F	DIODE, UZ9.18
TR203, 204	662N033D	TR, MPS 9411AJ	D217	652T605B	DIODE, 1S2472
	665-840A	TR, KTC 9013AH	D218, 219,	652T-605B	DIODE, 1S2472
TR207	662N039D	TR, MPS 9461AJ	220, 221		
	665-841A	TR, KTC 9012AH	D301, 302	652T605B	DIODE, 1S2472
TR208	662N033D	TR, MPS 9411AJ	D303, 304, 305	651-001C	DIODE, AM1K60
	665-840A	TR, KTC 9013AH	D401-406	653-618A	LED, TLR-205
TR209	662N039D	TR, MPS 9416AJ	D407	653-022A	LED, KLR114
	665-841A	TR, KTC 9012AH	D408	653-618A	LED, TLR-205
TR214	662N018B	TR, MJE 9400	D409	653-023A	LED, KLG114
TR215	664-601B	TR, KTD-880Y	D410	653-618B	LED, KLG205
TR216	662N033D	TR, MPS 9411AJ	D501	652-021C	DIODE, MI-151
			D502	652-021D	DIODE, MI-151R

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
COILS AND TRANSFORMERS			S206	556N053A	S/W, SLE 62301—MONO/ST/WIDE
L1	635-020E	COIL, FM OSC	S207	556-615A	S/W, SLE 64215—MANUAL/AUTO
L2	635-602A	COIL, FM RF	S208	556N052B	S/W, SLE 622—LOUDNESS
L3	635-003B	COIL, FM OSC	S209	556-612C	S/W, HTW3405-01-2105-01—POWER
L4, 5	632-042B	COIL, MW/LW ANT (FOR TSR-800)	S210	558-013A	S/W, KHC10902-PROGRAM
	632-042A	COIL, MW/SW1 ANT (FOR TSR-805)	RV2	613-021E	VR, SEMI-FIXED 10KB
L6	634-020F	COIL, SW ANT (FOR TSR-800)	RV3	613-021A	VR, SEMI-FIXED 500B
	634-020D	COIL, SW2 ANT (FOR TSR-805)	RV101, 301	613-021G	VR, SEMI-FIXED 50KB
L7	634-015C	COIL, MW OSC	RV102, 302	613-021G	VR, SEMI-FIXED 50KB
L8	634-037F	COIL, LW OSC (FOR TSR-800)	RV103, 303	613-021H	VR, SEMI-FIXED 100KB
	634-020B	COIL, SW1 OSC (FOR TSR-805)	VR101, 301	611-639A	VR, 20KA—REC LEVEL
L9	634-020E	COIL, SW OSC (FRO TSR-800)	VR201	611-640A	VR, 100KA—TREBLE
	634-020C	COIL, SW2 OSC (FOR TSR-805)	VR202	611-640B	VR, 100KB—BASS
L10	639-003L	COIL, PADDING 180 $\mu$ H	VR203	611-641B	VR, 20KA—VOLUME
L11	636-006D	COIL, CHOKE 300 $\mu$ H	VR204	611-639B	VR, 20KW—BALANCE
L101, 301	637-601F	COIL, PEAKING 8.2 mH	VR205	611-639A	VR, 20KA—MIXING
L102, 302	637-005D	COIL, PEAKING 27 mH			
L201	634-036C	COIL, TAPE OSC	MISCELLANEOUS		
L202	639-003I	COIL, PADDING 4.7 $\mu$ H	LPF1, LPF2	616-009A	FILTER, LOW PASS
T1	644-018F	TRANS, FM IF	BPF	616-011A	FILTER, BAND PASS
T2	647-604D	DISCRIMINATOR	CF1, CF2	616-007A	FILTER, CERAMIC
T3	644-019D	TRANS, MW IF	VC1-4	622N048E	VARICON, POLY P2Z-22BPT
T4	644-019G	TRANS, MW IF	TC5	623N023H	TRIMMER, 20P (FOR TSR-800)
T5	644-039N	TRANS, MW IF		623N023B	TRIMMER, 20P (FOR TSR-805)
SWITCHES AND VARIABLE RESISTORS				623N023B	TRIMMER, 8P
S1	551-618A	S/W, SRZU 104N-BAND	TC6, 7, 8	572-042B	JACK—MIC/EXT. SP
S201	552-035F	S/W, CL110K-REC/PLAY	J201-204	572-158A	JACK-MIX MIC.
S202	552N077A	S/W, KSA4251-PHONO/LINE IN	J205	573-080B	SOCKET-LINE IN/PHONO
S203	552-614A	S/W, KSA2317-RIF	jJ207	573-051B	SOCKET-DIN
S204, 205	556-614A	S/W, SLLO13002-TAPE/RADIO/ PHONO-LINE IN (located on p.c. board)	J207	573-051B	SOCKET—
	552-621A	S/W, SSR243002-TAPE/RADIO/ PHONO-LINE IN (located on front case)	J207	573-051B	SOCKET-DIN

EXPLODED VIEW FOR CABINET



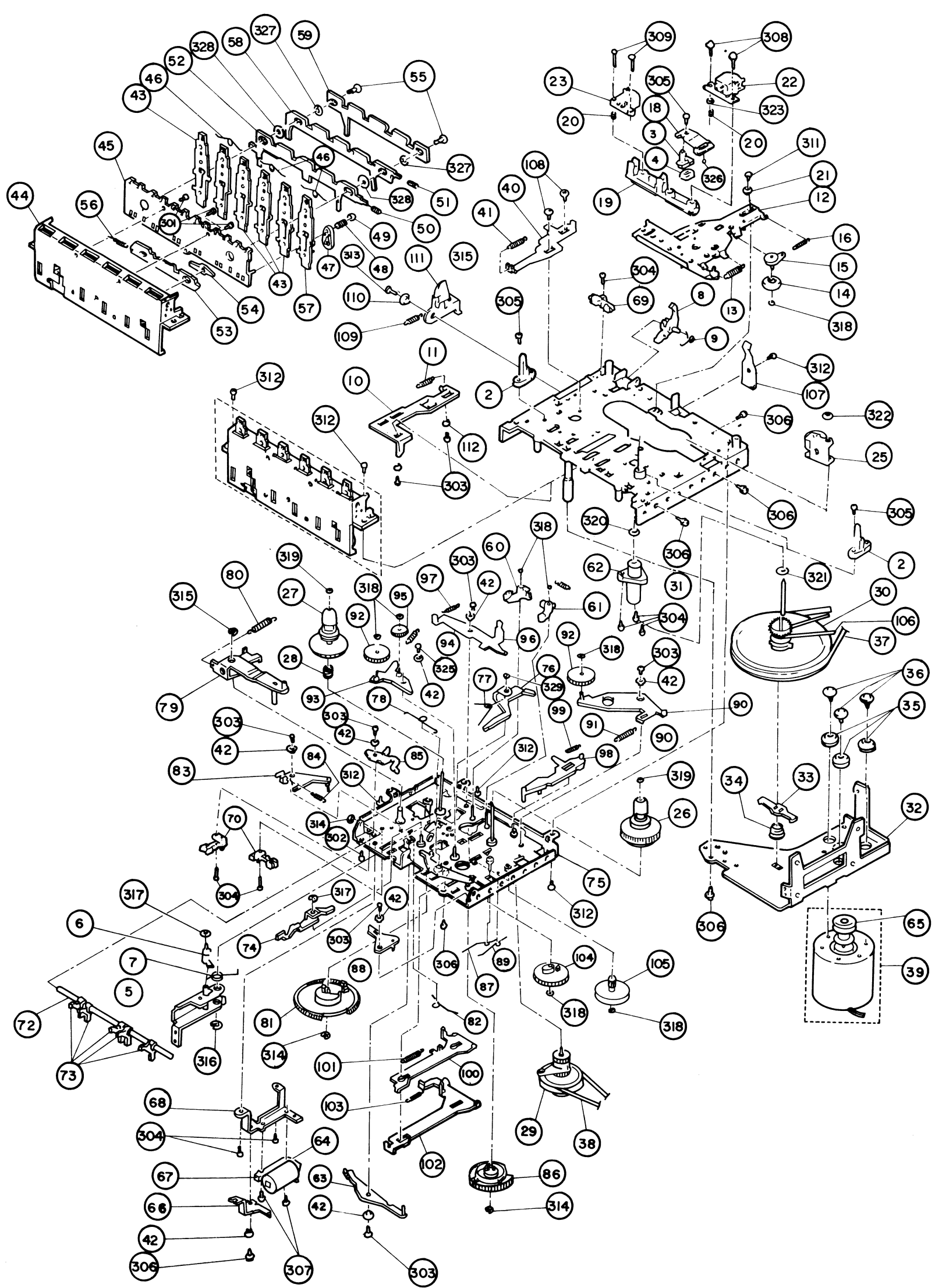
MECHANICAL PARTS LIST FOR CABINET EXPLODED VIEW

Note: The part-no on this parts list are subject to change.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
A-11	353NO71D	SCREW, SPECIAL	C-24	353NO25G	SCREW SPECIAL
A-12	353NO25F	SCREW SPECIAL	C-25	441-005C	SPRING EJECT
A-13	353-052C	SCREWSPECIAL	C-26	324-640A	HOLDER LED AMSS
A-14	353-025G	SPECIAL SCREW	C-27	442-671C	SPRING CASSETTE
A-16	271-159A	KNOB, TUNING	C-28	TOQ1536J	SCREW
A-17	273-657A	KNOB CONTROL	C-29	353NO25G	SCREW SPECIAL
A-18	273-653A	KNOB, SWITCH (A)	C-30	353NO25G	SCREW SPECIAL
A-19	273-654A	KNOB, SWITCH (B)	C-31	572-034A	JACK, PHONE
A-20	221-907A	COVER, KNOB	C-32	273-659A	KNOB, EJECT
A-21	221-432A	COVER BATTERY	C-33	273-658A	KNOB AMSS
A-22	221N410G	COVER VOL SELECTOR	C-34	441-004A	SPRING EJECT AMSS
A-23	217N224A	CASE, BATTERY	C-35	321-779A	BRACKET DOOR CST
A-25	542-028A	MICROPHONE	C-36	445NO25B	SPACER, CLOTH
A-27	681-010A	CORD POWER	C-37	353NO25H	SCREW
A-28	591NO10A	ADAPTER (EXPORT 110V /220)	C-38	354-602D	WASHER
A-29	236-160A	WINDOW, CASSETTE COVER	D	311-618B	CHASSIS AY
A-30	353-615A	SCREW, DECO	D-1	313-216A	CHASSIS
A-32	353NO25C	SCREW, SPECIAL	D-2	423N397B	SHAFT TUNING
A-33	324-472A	HOLDER MIC AY	D-3	434N031A	ROLLER
C	215-536B	CASE, FRONT AY	D-4	423N254A	SHAFT, ROLLER
C-1	217-308A	CASE FRONT	D-5	434-018A	Roller
C-2	224-041A	GRILLE, WOOFER	D-6	432NO38A	PULLEY DIAL
C-3	224-043A	GRILLE, tweeter metal	D-7	MPC1536J	SCREW, MPC+2.6x8
C-4	224-042A	GRILLE, SPEAKER TWEETE	D-8	442-004X	SPRING
C-5	251-626F	PLATE, DECORATION	D-10	361-608A	POINTER
C-6	241-103A	MARK, GOLD STAR	D-11	WEO1800Q	E-RING, WED-3SK5 8K
C-7	562-0500	LUG	D-12	542NO23A	CONDENSER MIC EM-80 PRIMO
C-8	353NO25G	SCREWSPECIAL	D-13	341N105A	BUSHING MIC
C-9	246-214A	DECORATION LED (A)	D-14	423-296A	SHAFT, BAND SELECT
C-10	246-215A	DECORATION LED (B)	D-15	MPC1830J	SCREW, MPC+3x6
C-11	236-161A	WINDOWSCALE	D-16	353NO25G	SCREW SPECIAL
C-12	518-623A	METER VUY176-A	D-19	251-627C	PLATE, SCALE
C-13	353-052C	SCREWSPECIAL	D-20	353-052J	SCREW, WPECIAL
C-14	541-139A	SPEAKER 050N06-1350F	D-21	235-005A	BOARD, JACK (DIN)
C-15	353-052C	SCREWSPECIAL	D-22	324-458A	HOLDER, JACK
C-16	541-158B	SPEAKER	D-23	353NO25G	SCREW SPECIAL
C-17	353NO71E	SCREW, SPECIAL	D-24	262NO56A	LOG, GND
C-18	226-612A	DOOR CASSETTE	D-25	353NO25L	SCREW, SPECLAL 3x10 FCRM
C-19	NHA1800J	NUT, NH1-3 FZMY	D-26	255-091A	HEAT SINK (A)
C-20	423-294A	SHAFT, PULLEY DOOR	D-27	255-092A	HEAT SINK (B)
C-21	444-002A	DAMPER-AIR, KUGAMI SEIKI (K-104)	D-28	TRQ1836J	SCREW, TRQ+3x8 MSWR3 FZMY
C-22	423-295A	SHAFT, DAMPER	D-29	363-052C	SCREW SPECIAL
C-23	321-743B	BRACKET DOOR CST			

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
D-30	321-747A	BRACKET REC S/W	F-13	TRQ1836J	SCREW, TRQ2+3x8 MSWR+ FZMY
D-31	353NO25C	SCREW SPECIAL	F-14	321-740A	BRACKET, DECK (B)
D-32	255-092B	HEAT SINK (B)	F-15	353NO22A	SCREW, SPECIAL
D-33	273-238C	KNOIB, SWITCH	F-16	321-787A	BRACKET, DECK (C)
D-34	MPC1830J	SCREW, MPC+4x6	F-17	353NO22A	SCREW, SPECIAL
D-35	354-602F	WASHER	F-18	321-744A	BRACKET, RECORD
E	321-748B	BRACKET POWER AY	F-19	442-657A	SPRING REC PLATE
E-2	641-679C	POWER TRANS 220V	F-20	353NO22A	SCREW, SPECIAL
E-3	353NO71E	SCREW, SPECIAL (M4x10)	F-21		
E-4	353-052C	SCREW SPECIAL	F-22	273-655A	KNOB, CST (A)
E-5			F-23	273-656A	KNOB, CST (B)
E-6			G	215-537B	CASE, REAR AY
E-7			G-1	217-309A	CASE REAR
E-8	577-004A	SOCKET AC-IN	G-2	562NO55A	LUG
F	411-029A	MECHANISM DECK AY	G-3	532-007C	ANTENNA ROD
F-1	412-068B	DECK MECHANISM TN77 M-193	G-4	MAC1845L	SCREW, MAC+3x18FNM
F-1-1	451-145A	BELT, COUNTER (A)	G-5	562-050N	LUG
F-1-2	451-145B	BELT, COUNTER (B)	G-6	353NO25G	SCREW SPECIAL
F-2	251-628A	PLATE, DECO CST	G-7	353NO25G	SCREW SPECIAL
F-3	MPC1522L	SCREW M+2.6FCR	G-8	321-745A	BRACKET HANDLE
F-4	256N261A	PLATE REFLECTION	G-9	353NO25G	SCREW SPECIAL
F-5	321-739A	BRACKET DECK (A)	G-10	261NO89D	HANDLE
F-6	353NO22A	SCREW, SPECIAL	G-11	324-639A	HOLDER, HANDLE
F-7	517-102A	COUNTER SINMEL T3ARS1	G-12	MAC1843L	SCREW, MAC+3x14 FNM
F-8	MPC1830J	SCREW, MPC+3x6	G-13	423-297A	SHAFT, HANDLE
F-9	423-294D	SHAFT, PULLEY DOOR	G-14	423-286A	SHAFT HANDLE HOLDER
F-10	432-609B	PULLEY, COUNTER	G-15	442N261B	SPRING BATTERY (A)
F-11	WEO0500P	E-Ring D1.5	G-16	442N262A	SPRING BATTERY (B)
F-12	322-144A	SUPPORTER, EJECT LEVER	G-17	563N126A	TERMINAL BATTERY

EXPLODED VIEW FOR DECK MECHANISM





PARTS LIST FOR DECK MECHANISM EXPLODED VIEW

NO.	PARTS NAME	PART NO.	NO.	PARTS NAME	PART NO.
2	CASSETTE GUIDE	99T-0001	60	BRAKE ARM (L) ASS'Y	99T-0022
3	GUIDE PIN	99T-0002	61	BRAKE ARM (R) ASS'Y	99T-0023
4	GUIDE PIN CUSHION	99T-0003	64	COIL ASS'Y	99T-0024
6	SENSING PIECE	99T-0004	66	KICK LEVER	99T-0025
8	REC. SAFETY LEVER	99T-0005	69	SWITCH	99T-0026
18	PANNEL PRESS PLATE	99T-0006	70	SWITCH	99T-0027
19	HEAD BASE	99T-0007	98	SENSING PLATE	99T-0028
22	R.P. HEAD	99T-0008	104	CAM GEAR	99T-0029
23	E. HEAD	99T-0009	106	BELT	99T-0030
25	PINCH ROLLER ASS'Y	99T-0010	197	PACK HOLD SPRING	99T-0031
26	TAKE UP REEL ASS'Y	99T-0011	109	EJECT LEVER SPRING	99T-0032
27	SUPPLY REEL ASS'Y	99T-0012	111	EJECT LEVER	99T-0033
29	R.F. CLUTCH ASS'Y	99T-0013	304	C TAPPING SCREW 2x5	99T-0034
37	MAIN BELT	99T-0014	305	C TAPPING SCREW 2x6	99T-0035
38	R.F. BELT	99T-0015	308	CAP SCREW 2x10	99T-0036
39	MOTOR ASS'Y	99T-0016	312	C TAPPING SCREW 2.6x4	99T-0037
43	BUTTON LEVER ASS'Y	99T-0017	319	POLYSLIDER WASHER	99T-0038
46	BUTTON LEVER SPRING	99T-0018	322	POLYSLIDER WASHER	99T-0039
50	FUNCTION LEVER SPRING	99T-0019	326	STEEL BALL 2.0	99T-0040
51	FUNCTION LEVER SPRING	99T-0020			
55	FUNCTION LEVER STOPPER	99T-0021			